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Term	Documents
(5 NOT 3).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	12
(L5 NOT L3).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	12

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Recall Text Clear Interrupt

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DATE: Friday, April 15, 2005 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=AND			
L6	L5 not L3	12	L6
L5	((modified or mutant) same (lambda adj integrase))	18	L5
L4	L2 not L3	38	L4
L3	L2 and (attB or attP or attL or attR)	7	L3
L2	((modified or mutant) adj Int) or (Int-h or Int-h/218)	45	L2
L1	Droge-Peter.in.	2	L1

END OF SEARCH HISTORY

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Date: 4/15/2005

Time: 11:16:26

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Additionally, enter the **first few letters** of the Inventor's First name.

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Droge	Peter	Search

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Q2, 2005

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B 155, 159, 5, 73
       15apr05 12:24:05 User259876 Session D741.1
            $0.80    0.228 DialUnits File1
     $0.80  Estimated cost File1
     $0.06  INTERNET
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  File 159:Cancerlit 1975-2002/Oct
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        (c) 2005 BIOSIS
  File  73:EMBASE 1974-2005/Apr W2
        (c) 2005 Elsevier Science B.V.

      Set  Items  Description
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?

S (MODIFIED OR MUTANT) (S) (LAMBDA (W) INTEGRASE)
          532363  MODIFIED
          527565  MUTANT
           83776  LAMBDA
            6950  INTEGRASE
      S1      69  (MODIFIED OR MUTANT) (S) (LAMBDA (W) INTEGRASE)
?

S (INT-H) OR (INT-H/218)
               3  INT-H
               1  INT-H/218
      S2       3  (INT-H) OR (INT-H/218)
?

RD S2
...completed examining records
      S3       2  RD S2 (unique items)
?

T S3/3,K/ALL

  3/3,K/1     (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

10882829   PMID: 7874687
 The overexpression of int-5/Aromatase, a novel MMTV integration locus
 gene, is responsible for D2 mammary tumor cell proliferation.
  Tekmal R R; Durgam V R
  Department of Obstetrics and Gynecology, University of Texas Health
Science Center at San Antonio 78284-7836.
  Cancer letters (IRELAND) Jan 27 1995, 88 (2) p147-55, ISSN
0304-3835  Journal Code: 7600053
  Contract/Grant No.: P30 CA 54174; CA; NCI; R29 CA57559; CA; NCI
  Publishing Model Print
  Document type: Journal Article
  Languages: ENGLISH
  Main Citation Owner: NLM
  Record type: MEDLINE; Completed

  Gene Symbol: MMTV; P450; int-5; int-H


  3/3,K/2     (Item 1 from file: 5)
DIALOG(R)File   5:Biosis Previews(R)
(c) 2005 BIOSIS. All rts. reserv.

0012039800   BIOSIS NO.: 199900299460
```

Alterations in the directionality of lambda site-specific recombination catalyzed by mutant integrases in vivo

AUTHOR: Christ Nicole; Droege Peter (Reprint)
AUTHOR ADDRESS: Institute of Genetics, University of Cologne, Weyertal 121, D-50931, Cologne, Germany**Germany
JOURNAL: Journal of Molecular Biology 288 (5): p825-836 May 21, 1999 1999
MEDIUM: print
ISSN: 0022-2836
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

DESCRIPTORS:
CHEMICALS & BIOCHEMICALS: ... **Int-h/218** ...

... **Int-h**
?

Set	Items	Description
S1	69	(MODIFIED OR MUTANT) (S) (LAMBDA (W) INTEGRASE)
S2	3	(INT-H) OR (INT-H/218)
S3	2	RD S2 (unique items)

?

S S1 NOT PY>2000

	69	S1
	6706539	PY>2000
S4	41	S1 NOT PY>2000

?

RD
...completed examining records

S5	14	RD (unique items)

?

T S5/3,K/ALL

5/3,K/1 (Item 1 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13304409 PMID: 10075917
X-ray structure of T4 endonuclease VII: a DNA junction resolvase with a novel fold and unusual domain-swapped dimer architecture.
Raaijmakers H; Vix O; Toro I; Golz S; Kemper B; Suck D
Structural Biology Programme, EMBL, Meyerhofstrasse 1, D-69117 Heidelberg, Germany.
EMBO journal (ENGLAND) Mar 15 1999, 18 (6) p1447-58, ISSN 0261-4189
Journal Code: 8208664
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... containing a zinc ion tetrahedrally coordinated to four cysteines, does not resemble any of the known junction-resolving enzymes, including the Escherichia coli RuvC and **lambda integrase** -type recombinases. The S-shaped dimer has two 'binding bays' separated by approximately 25 A which

are lined by positively charged residues and contain near...

5/3,K/2 (Item 2 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

13274883 PMID: 9931245
DNA-sequence asymmetry directs the alignment of recombination sites in the FLP synaptic complex.
Huffman K E; Levene S D
Department of Molecular and Cell Biology, The University of Texas at Dallas, Richardson, TX, PO Box 830688, USA.
Journal of molecular biology (ENGLAND) Feb 12 1999, 286 (1) p1-13, ISSN 0022-2836 Journal Code: 2985088R
Contract/Grant No.: GM47898; GM; NIGMS
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... FLP synaptic complexes examined contain the two FRTs aligned in parallel. This strong preference for parallel site alignment stands in contrast with prevailing models for **lambda integrase** -class recombination systems, which postulate antiparallel site alignment, and results from biophysical studies on synthetic, immobile four-way DNA junctions. Our results show that the...

5/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12980970 PMID: 10939248
Genetic characterization of gram-positive homologs of the XerCD site-specific recombinases.
Chalker A F; Lupas A; Ingraham K; So C Y; Lunsford R D; Li T; Bryant A; Holmes D J; Marra A; Pearson S C; Ray J; Burnham M K; Palmer L M; Biswas S; Zalacain M
SmithKline Beecham Pharmaceuticals, Collegeville, PA 19426-0989, USA. Alison F Chalker@sbphrd.com
Journal of molecular microbiology and biotechnology (ENGLAND) Apr 2000, 2 (2) p225-33, ISSN 1464-1801 Journal Code: 100892561
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... the S. aureus xerD gene appears to be absolutely required for viability, and may therefore be the first example of an essential gene of the **lambda integrase** family. In contrast, phylogenetic and conservation pattern analysis show that the S. pneumoniae gene products are more closely related to phage integrases than to XerCD...

5/3,K/4 (Item 4 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12800974 PMID: 10698624
Site-specific recombination in human cells catalyzed by phage lambda integrase mutants.
Lorbach E; Christ N; Schwikardi M; Droge P
Institute of Genetics, University of Cologne, Weyertal 121, Cologne, D-50931, Germany.
Journal of molecular biology (ENGLAND) Mar 10 2000, 296 (5) p1175-81, ISSN 0022-2836 Journal Code: 2985088R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

...to Cre and FLP, however, wild-type Int requires accessory proteins and DNA supercoiling of target sites to catalyze recombination. Here, we show that two **mutant** Int proteins, Int-h (E174 K) and its derivative Int-h/218 (E174 K/E218 K), which do not require accessory factors, are proficient to ...

5/3,K/5 (Item 5 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12784278 PMID: 10713132
Roles of topoisomerases in maintaining steady-state DNA supercoiling in Escherichia coli.
Zechiedrich E L; Khodursky A B; Bachellier S; Schneider R; Chen D; Lilley D M; Cozzarelli N R
Department of Molecular Virology and Microbiology, Baylor College of Medicine, Houston, Texas 77030, USA.
Journal of biological chemistry (UNITED STATES) Mar 17 2000, 275 (11) p8103-13, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: ESO1890; ES; NIEHS; GM 31657; GM; NIGMS
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... become hyper-negatively supercoiled (sigma = -0.09), greatly stimulating transcription from the supercoiling sensitive leu-500 promoter and increasing the number of supercoils trapped by **lambda integrase** site-specific recombination.

5/3,K/6 (Item 6 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12455195 PMID: 9765577
Point mutations in the integron integrase IntI1 that affect recombination and/or substrate recognition.
Gravel A; Messier N; Roy P H
Centre de Recherche en Infectiologie, Centre Hospitalier de l'Universite Laval and Departement de Biochimie, Faculte des Sciences et de Genie, Universite Laval, Sainte-Foy, Quebec, Canada.
Journal of bacteriology (UNITED STATES) Oct 1998, 180 (20) p5437-42,

ISSN 0021-9193 Journal Code: 2985120R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... lower than that obtained with the wild-type MBP-IntI1. We have also made two proteins with mutations of the tyrosine residue (Y312), and both **mutant** proteins are similar to the wild-type fusion protein in their DNA-binding capacity but are unable to catalyze in vivo recombination.

5/3,K/7 (Item 7 from file: 155)

12364806 PMID: 9675854
Cloning and characterisation of the Proteus mirabilis xerD gene.
Villion M; Szatmari G
Departement de Microbiologie et Immunologie, Universite de Montreal, Que., Canada.
FEMS microbiology letters (NETHERLANDS) Jul 1 1998, 164 (1) p83-90, ISSN 0378-1097 Journal Code: 7705721
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... methods. This gene encodes a tyrosine recombinase which is highly similar to the E. coli XerD recombinase, is capable of complementing an E. coli xerD **mutant** , and displays sequence-specific DNA binding activity.

5/3,K/8 (Item 8 from file: 155)

12310999 PMID: 9618537
A site-specific recombinase is required for competitive root colonization by Pseudomonas fluorescens WCS365.
Dekkers L C; Phoelich C C; van der Fits L; Lugtenberg B J
Leiden University, Institute of Molecular Plant Sciences, Clusius Laboratory, Wassenaarseweg 64, 2333AL Leiden, The Netherlands.
Proceedings of the National Academy of Sciences of the United States of America (UNITED STATES) Jun 9 1998, 95 (12) p7051-6, ISSN 0027-8424 Journal Code: 7505876
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... sss gene homologue rather than orf240 is crucial for colonization. xerC in Escherichia coli and sss in Pseudomonas aeruginosa encode proteins that belong to the **lambda integrase** family of site-specific recombinases, which play a role in phase variation caused by DNA rearrangements. The function of the xerC/sss homologue in colonization is discussed in terms of genetic rearrangements involved in the generation of

different phenotypes, thereby allowing a bacterial population to occupy various habitats. **Mutant** PCL1233 is assumed to be locked in a phenotype that is not well suited to compete for colonization in the rhizosphere. Thus we show the...

5/3,K/9 (Item 9 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

12268821 PMID: 9571022
Recognition of core binding sites by bacteriophage integrases.
Dorgai L; Sloan S; Weisberg R A
Laboratory of Molecular Genetics, National Institute of Child Health and Human Development, Bethesda, MD 20892, USA.
Journal of molecular biology (ENGLAND) Apr 17 1998, 277 (5) p1059-70, ISSN 0022-2836 Journal Code: 2985088R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

...on recombination, suggesting that integrase does not recognize each of the extended core binding sites in the same way. Finally, substitution at several positions in **lambda integrase** with the corresponding HK022-specific amino acids prevents recombination of lambda attachment sites, and this defect can be suppressed in an allele-specific manner by...

5/3,K/10 (Item 10 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10964424 PMID: 7744017
Xer site-specific recombination in vitro.
Arciszewska L K; Sherratt D J
Department of Biochemistry, University of Oxford, UK.
EMBO journal (ENGLAND) May 1 1995, 14 (9) p2112-20, ISSN 0261-4189 Journal Code: 8208664
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... corresponding to the conversion of the Holliday junction intermediate back to the substrate, has been observed. Recombination reactions using XerC and XerD derivatives that are **mutant** in their presumptive catalytic residues, or are maltose-binding fusion recombinase derivatives, have demonstrated that this pair of strand exchanges is catalysed by XerC. The ...

5/3,K/11 (Item 11 from file: 155)
DIALOG(R)File 155:MEDLINE(R)

10933558 PMID: 7715441
The sss gene product, which affects pyoverdin production in Pseudomonas

aeruginosa 7NSK2, is a site-specific recombinase.
Hofte M; Dong Q; Kourambas S; Krishnapillai V; Sherratt D; Mergeay M
Laboratory of Phytopathology, University of Gent, Belgium.
Molecular microbiology (ENGLAND) Dec 1994, 14 (5) p1011-20, ISSN 0950-382X Journal Code: 8712028
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... this mutant was cloned and sequenced. Its protein sequence showed 50% identity to the XerC protein of Escherichia coli, which is a member of the **lambda integrase** family of site-specific recombinases. An open reading frame was found upstream of sss whose protein sequence showed strong identity to DapF, the diaminopimelate epimerase...

... a multicistronic unit that also contains dapF. The sss gene of P. aeruginosa could restore site-specific recombination at cer in an E. coli xerC **mutant** and the E. coli xerC gene could complement a genomic sss mutation in P. aeruginosa.

5/3,K/12 (Item 12 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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08905232 PMID: 2155203
Genetic analysis of bacteriophage lambda integrase interactions with arm-type attachment site sequences.
Lee E C; Gumport R I; Gardner J F
Department of Microbiology, University of Illinois, Urbana 61801.
Journal of bacteriology (UNITED STATES) Mar 1990, 172 (3) p1529-38, ISSN 0021-9193 Journal Code: 2985120R
Contract/Grant No.: GM28717; GM; NIGMS
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... by binding to the same arm-type sites. Mutations in the P'123 or P'1 sites that impair Int binding were isolated by selecting **mutant** phages that express antirepressor in the presence of Int. DNA sequence analyses showed that most of the mutants in the challenge phages carrying the P...

5/3,K/13 (Item 13 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
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08265612 PMID: 2836392
Suicide recombination substrates yield covalent lambda integrase-DNA complexes and lead to identification of the active site tyrosine.
Pargellis C A; Nunes-Duby S E; de Vargas L M; Landy A
Division of Biology and Medicine, Brown University, Providence, Rhode Island 02912.
Journal of biological chemistry (UNITED STATES) Jun 5 1988, 263 (16) p7678-85, ISSN 0021-9258 Journal Code: 2985121R
Contract/Grant No.: GM33928; GM; NIGMS

Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... lambda integrase protein. The tyrosine residue at position 342 is shown to form a covalent bond with DNA at the sites of strand exchange. A **mutant** integrase in which this tyrosine is changed to phenylalanine is devoid of both topoisomerase and recombinase activity but still binds to both core- and arm...

5/3,K/14 (Item 1 from file: 5)
DIALOG(R)File 5:Biosis Previews(R)

0011716052 BIOSIS NO.: 199800510299
Point mutations in the integron intergrasse IntI1 that affect recombination and/or substrate recognition
AUTHOR: Gravel Annie; Messier Nancy; Roy Paul H (Reprint)
AUTHOR ADDRESS: Cent. Recherche Infectiol., CHUL, Local RC-709, 2705 Boul. Laurier, Sainte-Foy, PQ G1V 4G2, Canada**Canada
JOURNAL: Journal of Bacteriology 180 (20): p5437-5442 Oct., 1998 1998
MEDIUM: print
ISSN: 0021-9193
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

...ABSTRACT: lower than that obtained with the wild-type MmBP-IntI1. We have also made two proteins with mutations of the tyrosine residue (Y312), and both **mutant** proteins are similar to the wild-type fusion protein in their DNA-binding capacity but are unable to catalyze in vivo recombination.
?

Set	Items	Description
S1	69	(MODIFIED OR MUTANT) (S) (LAMBDA (W) INTEGRASE)
S2	3	(INT-H) OR (INT-H/218)
S3	2	RD S2 (unique items)
S4	41	S1 NOT PY>2000
S5	14	RD (unique items)

?

S (LAMBDA (W) INTEGRASE) (S) (HUMAN OR MAMMALIAN OR EUKARYOTIC OR MOUSE)

	83776	LAMBDA
	6950	INTEGRASE
	14542331	HUMAN
	354798	MAMMALIAN
	94567	EUKARYOTIC
	1699644	MOUSE
S6	25	(LAMBDA (W) INTEGRASE) (S) (HUMAN OR MAMMALIAN OR EUKARYOTIC OR MOUSE)

?

S S6 AND (ATTB OR ATTP OR ATTL OR ATTR)

25	S6
633	ATTB

```
            878  ATTP
            292  ATTL
            485  ATTR
      S7     11  S6 AND (ATTB OR ATTP OR ATTL OR ATTR)
?

RD
...completed examining records
      S8      3  RD (unique items)
?

T S8/3,K/ALL
```

8/3,K/1 (Item 1 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

15125218 PMID: 14687564

Phage integrases: biology and applications.

Groth Amy C; Calos Michele P
Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.

Journal of molecular biology (England) Jan 16 2004, 335 (3) p667-78, ISSN 0022-2836 Journal Code: 2985088R
Contract/Grant No.: DK58187; DK; NIDDK; HL68112; HL; NHLBI
Publishing Model Print
Document type: Journal Article; Review; Review, Tutorial
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Phage integrases are enzymes that mediate unidirectional site-specific recombination between two DNA recognition sequences, the phage attachment site, **attP** , and the bacterial attachment site, **attB** . Integrases may be grouped into two major families, the tyrosine recombinases and the serine recombinases, based on their mode of catalysis. Tyrosine family integrases, such as lambda integrase, utilize a catalytic tyrosine to mediate strand cleavage, tend to recognize longer **attP** sequences, and require other proteins encoded by the phage or the host bacteria. Phage integrases from the serine family are larger, use a catalytic serine for strand cleavage, recognize shorter **attP** sequences, and do not require host cofactors. Phage integrases mediate efficient site-specific recombination between two different sequences that are relatively short, yet long enough to be specific on a genomic scale. These properties give phage integrases growing importance for the genetic manipulation of living **eukaryotic** cells, especially those with large genomes such as mammals and most plants, for which there are few tools for precise manipulation of the genome. Integrases of the serine family have been shown to work efficiently in **mammalian** cells, mediating efficient integration at introduced att sites or native sequences that have partial identity to att sites. This reaction has applications in areas such...

8/3,K/2 (Item 2 from file: 155)

DIALOG(R)File 155:MEDLINE(R)

12800974 PMID: 10698624

Site-specific recombination in human cells catalyzed by phage lambda integrase **mutants.**

Lorbach E; Christ N; Schwikardi M; Droge P
Institute of Genetics, University of Cologne, Weyertal 121, Cologne, D-50931, Germany.
Journal of molecular biology (ENGLAND) Mar 10 2000, 296 (5) p1175-81, ISSN 0022-2836 Journal Code: 2985088R
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

Site-specific recombination in human cells catalyzed by phage lambda integrase **mutants.**
... 218 (E174 K/E218 K), which do not require accessory factors, are proficient to perform intramolecular integrative and excisive recombination in co-transfection assays inside **human** cells. Intramolecular integrative recombination is also detectable by Southern analysis in **human** reporter cell lines harboring target sites **attB** and **attP** as stable genomic sequences. Recombination by wild-type Int, however, is not detectable by this method. The latter result implies that **eukaryotic** co-factors, which could functionally replace the prokaryotic ones normally required for wild-type Int, are most likely not present in **human** cells. Copyright 2000 Academic Press.

8/3,K/3 (Item 3 from file: 155)
DIALOG(R)File 155:MEDLINE(R)
(c) format only 2005 The Dialog Corp. All rts. reserv.

12168317 PMID: 9472558
A new DNA vehicle for nonviral gene delivery: supercoiled minicircle.
Darquet A M; Cameron B; Wils P; Scherman D; Crouzet J
UMR 133 CNRS/Rhone-Poulenc Rorer, Vitry sur Seine, France.
Gene therapy (ENGLAND) Dec 1997, 4 (12) p1341-9, ISSN 0969-7128 Journal Code: 9421525
Publishing Model Print
Document type: Journal Article
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... a high level of biological containment. They are obtained in E. coli by att site-specific recombination mediated by the phage lambda integrase. The desired **eukaryotic** expression cassette, bounded by the lambda **attP** and **attB** sites was cloned on a recombinant plasmid. The expression cassette was excised in vivo after thermoinduction of the integrase gene leading to the formation of...
?

Set	Items	Description
S1	69	(MODIFIED OR MUTANT) (S) (LAMBDA (W) INTEGRASE)
S2	3	(INT-H) OR (INT-H/218)
S3	2	RD S2 (unique items)
S4	41	S1 NOT PY>2000
S5	14	RD (unique items)
S6	25	(LAMBDA (W) INTEGRASE) (S) (HUMAN OR MAMMALIAN OR EUKARYOTIC OR MOUSE)
S7	11	S6 AND (ATTB OR ATTP OR ATTL OR ATTR)
S8	3	RD (unique items)

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COST
       15apr05 12:33:02 User259876 Session D741.2
            $1.76    0.551 DialUnits File155
               $3.57  17 Type(s) in Format  3
            $3.57  17 Types
      $5.33  Estimated cost File155
            $0.48    0.163 DialUnits File159
      $0.48  Estimated cost File159
            $4.69    0.816 DialUnits File5
               $4.00  2 Type(s) in Format  3
            $4.00  2 Types
      $8.69  Estimated cost File5
            $7.02    0.660 DialUnits File73
      $7.02  Estimated cost File73
            OneSearch, 4 files,  2.189 DialUnits FileOS
      $2.40  INTERNET
     $23.92  Estimated cost this search
     $24.78  Estimated total session cost   2.418 DialUnits
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Return to logon page!